

University of Louisiana at Lafayette

RRES 100: Environmental Science

UL Lafayette Fall 2009 MWF 11-11:50 Hamilton Hall 115

Course Objective: The possibility of a future (i.e., a sustainable human existence on Planet Earth).

Instructor: Dr. Griff Blakewood, Hamilton Hall 332, 482.6340, griff@louisiana.edu

Office Hours: : MW 9:30-11, TR 3-5, Fri 10-11 by appointment

Texts Required: *Ishmael*, by Daniel Quinn

Grades: We will have three non-cumulative exams, each worth 30% of your grade (90% total). Test will be based on class notes and readings from *Ishmael* and articles I will post on Moodle. Although examinations will be based on material covered since the previous test, familiarity with all prior material is expected. Changes in exam dates will be announced at least one week in advance. Missed exams will be made up on the day of the final exam. The final 10 points of your grade will be based on your written discussions (one/class, one page each) of environmental issues from books, newspapers, TV, or the web (note: assignments can be hand written or typed, but in either case must be on the back of a previously used sheet of paper; NOTE: I do not need a copy of the internet article you summarized; points will be deducted for wasting paper). 90-100=A, 80-89=B, 70-79=C, 60-69=D.

Bonus Points: You can earn up to 5 bonus point/exam by re-copying your notes in a separate notebook (or section of your notebook). I will only look at notebooks during the exam (not later). Legibility, neatness, use of colored pens for drawings, relevant newspaper/magazine clippings, etc. will determine points given. Bonus points will also be given for attending seminars and other presentations (TBA).

Attendance: Points will be added or subtracted from your point total based on attendance. none = +10, 1 = +5, 2 or 3 = 0, 4 or 5 = -5, after 5 each absence is an additional -5.

Emergency Evacuation: A map of this floor is posted near the elevator marking the Evacuation Route and Designated Rescue Area. This is an area where emergency service personnel will first look for individuals who need assistance in exiting the building. All students who need assistance should identify themselves to the teaching faculty.

- 8.24 Environment & Worldview: Hey Buddy, Can You Paradigm?
- 8.26 Getting to the Root of the Problems
- 8.28 Renewable vs. Non-renewable Resources
- 8.31 The Sustainable Possible: Ecosystem Principles of Sustainability
- 9.02 Paradigms and the Stages of Death and Dying
- 9.04 *Ishmael Chapter 1 & 2*
- 9.09 Human Population Growth, the Tragedy of the Commons, and Religion
- 9.11 *Ishmael Chapter 3 & 4*
- 9.14 Air: the Global Commons, Air Pollution & Technofixes, Indoor Air Pollution
- 9.16 Regional/Global Atmospheric Problems, Climate Change
- 9.18 *Ishmael Chapter 5 & 6*
- 9.21 The Hydrological Cycle and Fresh Water Resources
- 9.23 Control of Nature: Dams and Diversions
- 9.25 Water Pollution and Sewage Treatment
- 9.28 Catch Up/Review
- 9.30 *EXAM I*
- 10.05 The Crisis of Non-sustainability in Agriculture
- 10.07 Industrial vs. Ecological Agriculture, Soil Erosion
- 10.09 *Ishmael Chapter 7 & 8*
- 10.12 From the Family Farm to Industrial Agriculture
- 10.14 Chemicals in Agriculture, The Indirect Costs of Pesticide Use
- 10.16 *Ishmael Chapter 9 & 10*
- 10.19 CAFO's and the Problems of Animal Agriculture
- 10.21 Sustainable Animal/Grassland Farming
- 10.23 Permaculture, IPM, and other Sustainable Practices
- 10.26 Forests as Resources, Sustainable Forestry
- 10.28 Paper and Chlorine
- 10.30 Catch Up/Review
- 11.02 *EXAM II*
- 11.04 The Economics of Waste
- 11.06 Municipal Solid Waste
- 11.09 The Environmental Three R's (+1)

- 10.11 Love Canal and Hazardous Wastes
- 11.13 Non-Renewable Energy/Fossil Fuels
- 11.16 The Nuclear Solution?
- 11.18 Biodiversity and Biophilia
- 11.20 The Gospel of Evolution
- 11.23 Conservation and Efficiency, Sustainability by Design
- 11.25 Renewable Energy
- 11.30 Ecological Economics
- 12.02 The Sustainable Future
- 12.04 Catch Up/Review
- 12.08 *EXAM III (2:00PM)*